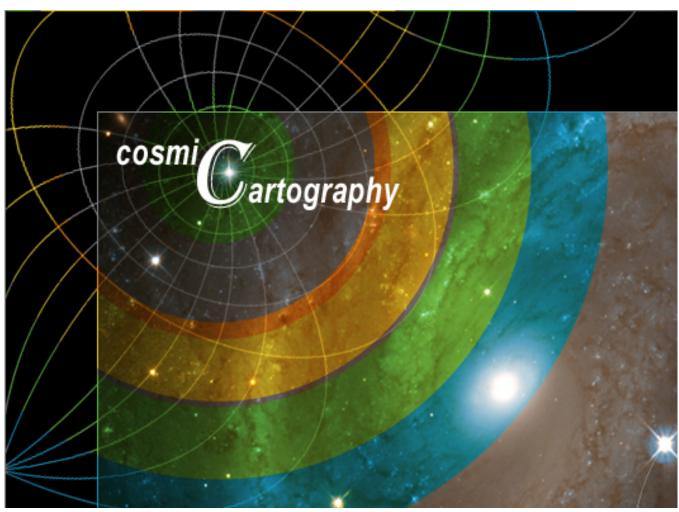
Cosmic Cartography: Mapping the Universe from the Big Bang to the Present December 3 - 6, 2007 Chicago, IL



http://cosmicmaps.uchicago.edu/

CONFERENCE PROGRAM









December 3, 2007 Mapping the Largest Structures

08:00 - 08:40	Coffee and Pastries	
08:40 - 08:50	Welcome and Announcements	
08:50 - 09:30	Mapping the CMB with the Wilkinson Microwave Anisotropy Probe (invited talk)	G. Hinshaw
09:30 - 10:10	On standard rods when making maps (invited talk)	R. Sheth
10:10 - 10:15	Poster Highlights I-A	
10:15 - 10:50	Coffee and Posters	
10:50 - 11:30	CMB and Galaxy Survey Cross-Correlation (invited talk)	R. Scranton
11:30 - 11:50	CMB Polarization Measurements with QUaD	C. Pryke
11:50 - 12:10	CMB Polarization Systematics Due to Beam Asymmetry: Impact on Inflationary Science	M. Shimon
12:10 - 12:30	Genus Topology of the Large Scale Structure	D. Hambrick
12:30 - 14:00	Lunch	
14:00 - 14:40	Mapping Dark Matter in 3d with Gravitational Lensing (invited talk)	G. Bernstein
14:40 - 15:00	Measuring the Cosmic Shear in Fourier Space	J. Zhang
15:00 - 15:20	Anisotropic Magnification Distortion of the Galaxy Correlation Function	L. Hui
15:20 - 15:40	Mapping dark matter with cosmic magnification	P. Zhang
15:40 - 15:45	Poster Highlights I-B	
15:45 - 16:30	Coffee and Posters	
16:30 - 17:10	The Gaseous Cosmic Web - from the Intergalactic Medium to Galaxies, and Back (invited talk)	M. Rauch
16:30 - 17:10 17:10 - 17:30		M. Rauch

Degree-scale anomalies in the CMB: localizing the first peak dip to a small patch of the F. Ferrer north ecliptic sky (Poster I-A)

Utilizing combined CMB T and E-polarization data to constrain primordial non-Gaussianity (Poster I-A)

A. Yadav

Cosmic Calibration (Poster I-B)

K. Heitmann

Clustering of X-ray selected AGNs in the Chandra Lockman Hole NW region (Poster I-Y. Yang B)

December 4, 2007 Mapping Local Structures

08:00 - 08:45	Coffee and Pastries	
08:45 - 08:50	Announcments	
08:50 - 09:30	Seeing the Forest Through the Trees: Cosmic Backgrounds (invited talk)	E. Wright
09:30 - 10:10	The Observed Structure of the Milky Way Spheroid (invited talk)	H. Newberg
10:10 - 10:15	Poster Highlights I-C	
10:15 - 10:50	Coffee and Posters	
10:50 - 11:30	Mapping the Local Group (invited talk)	K. Johnston
11:30 - 11:50	Peculiar Velocities in the Local Supercluster	B. Tully
11:50 - 12:10	Bayesian Reconstruction of the Large-Scale Structure: Joint Density, Velocity and Power-Spectrum Reconstruction	F. Kitaura
12:10 - 12:30	Evidence of dark matter substructure in tidal debris	J. Siegal-Gaskins
12:30 - 14:00	Lunch	
14:00 - 14:40	Mapping the Gaseous Local Universe (invited talk)	M. Putman
14:40 - 15:00	Probing Dark Matter Substructure with Pulsar Timing	J. Fry
15:00 - 15:20	Cold Dark Matter Substructure and Galactic Disks: Morphological and Dynamical Signatures of Hierarchical Satellite Accretion	S. Kazantzidis
15:20 - 15:40	The Morphology of Shell-type Supernova Remnants in Very-High- Energy Gamma Rays	S. Wissel
15:40 - 15:45	Poster Highlights I-D	
15:45 - 16:30	Coffee and Posters	
16:30 - 17:10	A High-Energy View of the Nearby Universe (invited talk)	A. Harding
17:10 - 17:30	The Excited State of Galactic TeV Astronomy	B. Humensky
19:00 - 21:00	Banquet at Spiaggia, including the lecture "Ptolemy the Geographer" by Jim James R. Akerman (Director, The Hermon Dunlap Smith Center for the History of Cartography, The Newberry Library)	

The impact of non-linear matter power spectrum on the measurement of neutrino masses (Poster I-C)

Peaks in cosmological density field (Poster I-D)

S. De

Cosmology through galaxy cluster statistics (Poster I-D)

D. Raut

The VERITAS Survey of the Galactic Plane (Poster I-D)

S. Wissel

December 5, 2007 Mapping the Largest Sources

08:00 - 08:45	Coffee and Pastries	
08:45 - 08:50	Announcments	
08:50 - 09:30	Observing the Sunyaev-Zeldovich Effect (invited talk)	M. Dobbs
09:30 - 10:10	Tracing the Thermal and Metal Content in Clusters and the Effects of AGN Outbursts on the Hot Gas (invited talk)	C. Jones
10:10 - 10:15	Poster Highlights II-A	
10:15 - 10:50	Coffee and Posters	
10:50 - 11:10	Radio Sources Toward Galaxy Clusters at 30 GHz	K. Coble
11:10 - 11:30	Studying scaling relation and their scatter with 10000+1 galaxy clusters	E. Rasia
11:30 - 11:50	Ensuring the Robustness of Dark Energy Constraints in Light of Galaxy Formation	A. Zentner
11:50 - 12:30	X-ray Cluster Studies (invited talk)	A. Vikhlinin
12:30 - 14:00	Lunch	
14:00 - 14:40	Optical/IR Surveys for High-Redshift Galaxy Clusters (invited talk)	H. Yee
14:40 - 15:00	Mapping the destruction of cluster cool cores during mergers	M. Markevitch
15:00 - 15:20	Statistics of the Largest Structures from MaxBCG Galaxy Clusters	B. Koester
15:20 - 15:40	Constraining Dark Energy by Combining Cluster Counts and Shear-Shear Correlations in a Weak Lensing Survey	W. Fang
15:40 - 15:45	Poster Highlights II-B	
15:45 - 16:30	Coffee and Posters	
16:30 - 16:55	Covariance in Galaxy Cluster Scaling Relations	A. Evrard
16:55 - 17:20	Minimally Invasive CMB Mapmaking	G. Holder
17:20 - 17:45	New Information From New Maps	A. Stebbins
19:00 - 21:00	Public Event, "Cosmic Cartography Journey through the Universe" at the Art Institute's Rubloff Auditorium, host by Rocky Kolb and Mike Turner	

Observing the Distant Universe with Gravitational Lensing (Poster II-A) M. Bayliss Probing non-thermal emission from clusters with angular fluctuations in the gamma-S. Koushiappas ray background (Poster II-A) Radio Sources in Galaxy Clusters (Poster II-A) M. Roscioli Using Galaxies as Cosmic Tracers (Poster II-A) M. Swanson An Evolving Entropy Floor in the Intracluster Gas? (Poster II-B) W. Fang Quasars and Galaxies in Large Quasar Groups at z\$sim\$1 (Poster II-B) L. Haberzettl Selection and Covariance in Galaxy Cluster Scaling Relations: Deciphering Mixed B. Nord Messages from X-ray Selected Clusters (Poster II-B) R. Stanek The Effect of Baryonic Physics on the Halo Mass Function (Poster II-B)

December 6, 2007 Mapping the Future

08:00 - 08:55	Coffee and Pastries	
08:55 - 09:00	Announcments	
09:00 - 09:25	Planck	K. Gorski
09:25 - 09:50	The Radio Synoptic Survey Telescope (RSST): A SKA Concept	S. Myers
09:50 - 10:15	Mapping Star and Galaxy Formation with ALMA	A. Baker
10:15 - 10:20	Poster Highlights II-C	
10:20 - 11:00	Coffee and Posters	
11:00 - 11:25	Standard sirens: Precision distance measurements using gravitational waves	S. Hughes
11:25 - 11:50	Mapping the TeV Gamma-Ray Sky with HAWC	J. Pretz
11:50 - 12:15	Mapping the Ultra-highenergy Cosmic-ray Sky with the Pierre Auger Observatory	V. Pavlidou
12:15 - 13:45	Lunch	
13:45 - 14:10	The Dark Energy Survey	T. McKay
14:10 - 14:35	Mapping the universe with Pan-STARRS PS1 System	K. Chambers
14:35 - 15:00	The Wide-field Infrared Explorer (WISE)	E. Wright
15:00 - 15:15	NIRSS - the Near Infrared Sky Surveyor	D. Stern
15:15 - 15:30	NuSTAR: the Nuclear Spectroscopic Telescope Array	D. Stern
15:30 - 15:55	BOSS : The Baryon Oscillation Spectroscopic Survey	N. Padmanabhan
15:55 - 16:00	Poster Highlights II-D	
16:00 - 16:35	Coffee and Posters	
16:35 - 16:50	Conference Closing	

Perturbation theory and excursion set estimates of the probability distribution function of dark matter, and a method for reconstructing the initial fluctuation field (Poster II-C)	T. Lam
The Study of Extragalactic Gamma-ray Sources: An Ongoing Revolution (Poster II-C)	L. Reyes
Photometric redshift surveys: towards unbiased scaling relations (Poster II-C)	G. Rossi
Robust Machine Learning Applied to Terascale Astronomical Datasets (Poster II-D)	N. Ball
Dark Energy Survey (Poster II-D)	J. Estrada
Group finding in high-dimensional data-sets: Method and application to the identification of substructures in the stellar halo (Poster II-D)	S. Sharma